



IR SYSTEMS



command

ELANTM
Life Just Got Better.TM



INFRARED CONTROL

by **ELAN**

IR Control Solutions for Any Environment

A comprehensive line of Plasma-Friendly IR Sensors, state-of-the-art Emitters and IR Distribution solutions that further solidify ELAN's prominence as the one-stop-shop for all your Custom Audio, Video and Home Automation needs.

TABLE OF CONTENTS

Introduction	2
Infrared At-A-Glance	3
Sensors	4
IR Emitters	6
IR Distribution	9
IR Accessories	11

The Most Reliable IR Control Solutions for Any Environment

New for 2005, ELAN's 30-piece IR control product line was developed to specifically address today's broad and ever-evolving custom installation needs.

More than ever, today's home installations require highly reliable IR control of a wide array of audio and video

components. Today's custom A/V installations need to address the issues of plasma and LCD television emissions as well as that of ambient and fluorescent light that can cause tremendous problems with the consistent transmission of IR signals from hand-held remote controls. And, as more and more A/V sources are being

added to homes, IR control signals need to be distributed to a growing number of sources within an installation, and spread throughout many rooms.

With that in mind, ELAN has designed each of our IR Sensors, Emitters and IR Connection Blocks to faithfully deliver IR commands throughout the home, even in the most problematic environments.

Regardless of the installation type, homeowner needs or budget, ELAN delivers the very best in reliable home control and entertainment.



INFRARED CONTROL
by ELAN

IR AT-A-GLANCE

Category	Product Name	Description
PLASMA-FRIENDLY IR SENSORS Most every room in a home can present numerous challenges to reliable transmission of IR control signals. Ambient light sources (sun or fluorescent lighting) and plasma or LCD TVs can interfere with IR. All ELAN IR Sensors feature a unique filtering system that reduces interference from these sources. These Sensors can be flush-mounted into a wall or cabinet, placed on a shelf or table, or surface-mounted virtually anywhere. There are two Extreme Plasma Sensors that provide reliable IR control under even the most severe Plasma emission situations.	IRS1	Surface-Mount IR Sensor With Plug
	IRS2	Surface-Mount IR Sensor With Bare Leads
	IRS3	Flush-Mount IR Sensor With Plug
	IRS4	Flush-Mount IR Sensor With Bare Leads
	IRS5	Tabletop IR Sensor With Plug
	IRS6	In-Wall IR Sensor
	IRS7EP	Extreme Plasma IR Sensor With Plug
	IRS8EP	Extreme Plasma IR Sensor With Bare Leads

IR EMITTERS ELAN offers a wide variety of Emitters, each designed for highly reliable IR transmission. Each single- or dual-head Emitter comes with a unique docking module that stays in place on the A/V component's IR window while allowing for easy removal of the Emitter when servicing equipment. An IR-transparent housing allows IR from hand-held remotes to pass through to the component. 8' leads and a 3.5mm plug are standard on all Emitters. Certain models include an IR Blocking Shield.	IRE1	IR Emitter
	IRE1D	Dual IR Emitter
	IRE2	Talk Back IR Emitter
	IRE2D	Dual Talk Back IR Emitter
	IRE3	High Output IR Emitter
	IRE4	Micro IR Emitter

IR DISTRIBUTION ELAN offers a comprehensive line of stand-alone IR Distribution Hubs that accommodate anything from basic IR repeater systems to multi-zone distribution scenarios.	IRD2	Passive IR Connection Block
	IRD4	Amplified IR Connection Block
	IRD10	Passive IR Emitter Expansion Block
	IRDKIT	IR Distribution Kit
	IRD4Z	4-Zone In-Wall IR Distribution Block
	IRD6Z	6-Zone IR Distribution Hub

IR ACCESSORIES Important accessories that complete ELAN's IR Control product line.	IRIC	IR Interconnect Cable
	IRXC	15' IR Sensor Extension Cable
	IRYC	IR Emitter "Y" Cable
	PWR2	200mA, 12 Volt DC Regulated Power Supply
	PWR3	2.1A, 12 Volt DC Regulated Power Supply

PLASMA-FRIENDLY IR SENSORS

Just about every room in every house has something in it that can adversely effect the reliable transmission of IR control signals. Ambient light sources, such as compact fluorescent light fixtures (CFL) or sunlight streaming through a window at a certain time of day can interfere with IR transmissions. And, as is well documented, the emissions generated by Plasma television sets can wreak havoc with IR. ELAN's solution? A complete line of IR Sensors that can be used in any environment! Each and every

ELAN IR Sensor features a unique filtering system that reduces interference from both ambient light sources and Plasma or LCD TVs—and ELAN has a Sensor type for just about every application. ELAN IR Sensors can be flush-mounted into a wall or cabinet, placed on a shelf or tabletop, or surfaced-mounted anywhere you need one. There are even two *Extreme Plasma* Sensors that were designed to provide reliable IR control under the most severe Plasma emission situations.

IRS1 PLASMA-FRIENDLY SURFACE-MOUNT IR SENSOR WITH PLUG



This sleek-looking miniature IR Sensor can be surface mounted just about anywhere—cabinetry, TVs, walls—you name it. Its unique quad 'mini' plug connects to any ELAN IR Distribution Block and provides system status and IR activity feedback to the on-board LEDs.

FEATURES

- Sleek, miniature surface-mount IR Sensor
- Plasma-friendly design
- Ambient light filtration
- Quad 'mini' plug for quick connection
- IR activity and system status LED indicators
- Available in black (IRS1b) and silver (IRS1s)
- *Full-color retail box standard*

IRS2 PLASMA-FRIENDLY SURFACE-MOUNT IR SENSOR WITH BARE LEADS



The non-retail version of the IRS1, the IRS2 has bare leads instead of a quad 'mini' plug, making system connectivity that much easier for the installer.

FEATURES

- Sleek, miniature surface-mount IR Sensor
- Plasma-friendly design
- Ambient light filtration
- Bare leads for easy system connections
- IR activity and system status LED indicators
- 4-position termination block included
- Available in black (IRS2b) and silver (IRS2s)
- *Non-retail packaging*

IRS3 PLASMA-FRIENDLY FLUSH-MOUNT IR SENSOR WITH PLUG



Designed to mount flush in a cabinet or wall, the IRS3's small footprint and low-profile bezel make it an ideal choice wherever an inconspicuous IR Sensor is needed. The 3.5mm 'mini' plug makes for a quick connection to ELAN IR Distribution Blocks.

FEATURES

- Low-profile flush-mount IR Sensor
- Plasma-friendly design
- Ambient light filtration
- 3.5mm plug for easy Distribution Block connections
- *Full-Color retail box standard*

IRS4 PLASMA-FRIENDLY FLUSH-MOUNT IR SENSOR WITH BARE LEADS



The non-retail version of the IRS3, the IRS4 has bare leads in lieu of a 'mini' plug, making system connectivity that much easier for the installer.

FEATURES

- Low-profile flush-mount IR Sensor
- Plasma-friendly design
- Ambient light filtration
- Bare leads for easy system connections
- 4-position termination block included
- *Non-retail packaging*

IRS5 PLASMA-FRIENDLY TABLETOP IR SENSOR WITH PLUG



Small, sleek and attractive, the IRS5 was designed to sit on a cabinet, shelf, tabletop or any flat surface. The weighted base and non-slip, no-scurf pad ensure that it remains where you place it. The IRS5 features system status and IR activity LEDs and a quad 'mini' plug for easy connection to ELAN IR Distribution Blocks.

FEATURES

- Small, sleek styling for table/cabinet-top applications
- Plasma-friendly design
- Ambient light filtration
- Weighted base with non-skid, no-scurf pad
- IR activity and system status LED indicators
- Available in black
- *Full-color retail box standard*

IRS6 PLASMA-FRIENDLY IN-WALL IR SENSOR



The IRS6 is an attractive in-wall IR Sensor that fits into a standard single-gang outlet box. Its traditional Decora® format and four color options allow it to blend in seamlessly with light switches and other in-wall controls.

FEATURES

- Attractive Decora® styling
- Plasma-friendly design
- Ambient light filtration
- Fits in standard single-gang box
- IR activity and system status LED indicators
- Available in almond (IRS6a), black (IRS6b), ivory (IRS6i) & white (IRS6w)
- Full-color retail box standard

IRS7EP EXTREME PLASMA SURFACE-MOUNT IR SENSOR WITH PLUG



Specifically designed for extreme plasma or severe CFL environments, the IR7EP provides reliable IR data transmissions even under the harshest circumstances. The two-piece design allows you to hide the main module inside a cabinet while the small, unobtrusive Sensor module can be adhered to any flat surface. A quad 'mini' plug provides an easy connection to ELAN IR Distribution Blocks.

FEATURES

- Reliable IR control in extreme plasma or CFL environments
- Two-piece design allows tiny Sensor module to be mounted discreetly
- IR Activity LED indicator on main module
- Quad 'mini' plug for easy connection to ELAN IR Distribution Blocks
- Full-color retail box standard

IRS8EP EXTREME PLASMA SURFACE-MOUNT IR SENSOR WITH BARE LEADS



The IRS8EP features the same extreme plasma and severe CFL design as the IRS7EP, but comes with bare leads for the custom installer.

FEATURES

- Reliable IR control in extreme plasma or CFL environments
- 2-piece design allows tiny Sensor module to be mounted discreetly
- IR Activity LED indicator on main module
- Bare leads of quick and easy system connections
- 4-position termination block included
- Non-retail packaging

IR EMITTERS

ELAN offers a wide variety of IR Emitters for every application, and all are designed for the reliable transmission of any infrared signal. Each single- or dual-head Emitter comes with a unique docking module that stays in place on the IR window while allowing for the easy removal of the Emitter when rearranging or servicing A/V components. The docking module's larger surface area also provides better adhesion to

component IR windows. The Emitter's IR-transparent housing allows infrared from hand-held remotes to pass through to the component, allowing for in-room, as well as system control of every source. All ELAN IR Emitters have 8' leads with a standard 3.5mm plug. Certain models include an IR Blocking Shield that prevents stray IR commands directed at other sources from interfering with source control.

IRE1 IR EMITTER



The standard Emitter for most source-control applications.

FEATURES

- Single-head IR Emitter with docking module
- IR shield included
- *Full-color retail box standard*

IRE1D DUAL IR EMITTER



Perfect for ELAN IR 'ALL' port applications where two sources need to be controlled from the same IR output port.

FEATURES

- Dual-head IR Emitter with docking modules
- Control two sources from one IR output port
- Ideal for ELAN 'ALL' port applications
- IR Shields (2) included
- *Full-color retail box standard*

IRE2 TALK BACK IR EMITTER



Another standard—only with a visible LED that flashes to confirm IR transmission.

FEATURES

- Single-head IR Emitter with 'talk back' LED and docking module
- IR Shield included
- *Full-color retail box standard*

IRE2D DUAL TALK BACK IR EMITTER



The 'talk back' version of the IRE1D. Use for dual source control from one IR output port.

FEATURES

- Dual-head IR Emitter with 'talk back' LEDs and docking modules
- Control two sources from one IR output port
- Ideal for ELAN 'ALL' port applications
- IR Shields (2) included
- *Full-color retail box standard*

IRE3 HIGH OUTPUT IR EMITTER



The IRE3 allows you to control multiple A/V components with a single Emitter. This adjustable 3" wand contains two high-output IR Emitters that operate at different frequencies of the IR spectrum, ensuring reliable control of a wide range of A/V components.

FEATURES

- Unique wand-shaped 'blaster' can control an entire stack of components
- 2 high-output Emitters for full spectrum IR control
- Installer-adjustable for perfect shelf overhang positioning
- Adhesive-backed for easy mounting
- *Full-color retail box standard*

IRE4 MICRO IR EMITTER



This tiny, high-output Emitter was designed to be placed close to the IR Sensor inside a component—a neat, clean alternative to IR window-mounted Emitters.

FEATURES

- High-output Micro Emitter mounts inside A/V component
- Adhesive-backed for easy mounting
- Neat, tamper-proof IR control solution
- *Non-retail packaging*

IR DISTRIBUTION

Sensors 'receive' IR data. Emitters 'transmit' IR data. So how does one get this data from point A to point B? Quite easily, actually. In addition to offering a complete line of multi-room controllers that route IR to

and from any room in the house, ELAN offers a comprehensive line of stand-alone IR Distribution Hubs that accommodate anything from basic IR repeater systems to multi-zone distribution scenarios.

IRD2 PASSIVE IR CONNECTION BLOCK



For basic IR repeating systems, this 1-input by 2-output passive IR Connection Block provides a quick and easy means for connecting an ELAN IR Sensor and two IR Emitters. Current-sharing resistors at each Emitter jack allow any combination of single- or dual-Emitters to be used. The STATUS input jack allows you to monitor the ON/OFF condition of systems components (PWR2 Power Supply required for Status feedback).

Note: Only 3.5mm quad 'mini' plugs can be connected to the 3.5mm IR Sensor input jack of the IRD2. If the IRD2 is to be connected to the IR output of any other ELAN product, use only the 3.5mm Quad-to-Mono interconnect cable included with the IRD2.

FEATURES

- Quick & easy connection for one ELAN IR Sensor and two IR Emitters
- Great for basic IR repeater systems
- STATUS input jack tells you if system is ON or OFF
- Quad 'mini' plug-to-mono 'mini' plug cable included for ELAN controller IR output port applications
- Strong adhesive backing for mounting on any flat surface
- *Non-retail packaging*

IRD4 AMPLIFIED IR CONNECTION BLOCK



The ELAN IRD4 is the heart of any stand-alone IR distribution system. This Amplified IR Distribution Block can connect quad-plug or bare-lead ELAN IR Sensors in one or more rooms and output their signals to up to four IR Emitters. The IRD4's robust, wide-bandwidth amplifier incorporates reverse voltage protection so that it has the ability to drive both miniature- and high-output Emitters simultaneously. And the IRD4 is expandable! Up to ten IRD4s can be linked together to create a distributed IR system that encompasses every room in the house.

Note: Only 3.5mm quad 'mini' plugs can be connected to the 3.5mm IR Sensor input jack of the IRD4. If the IRD4 is to be connected to the IR output of any other ELAN product, use only the 3.5mm Quad-to-Mono interconnect cable included with the IRD4.

FEATURES

- Amplified hub for stand-alone IR distribution systems
- Easy connection of both quad-plug and bare-lead ELAN IR Sensors
- 4 outputs jacks handle both high- and low-output IR Emitters
- Expandable! Link up to ten IRD4s together for large systems
- Mounts on any flat surface (mounting screws included)
- Quad-to-mono 'mini' plug cable included for ELAN controller applications
- Requires PWR2 or PWR3 Power Supply, depending on scope of system
- *Full-color retail box*

IRD10 PASSIVE IR EMITTER EXPANSION BLOCK



For use with the IRD4, this simple-to-use Emitter Expansion Block allows you to expand the number of IR output ports in any system. Connecting the IRD10 to the high output Emitter port of an IRD4 Amplified IR Distribution Block allows you to add up to ten additional IR Emitters per IRD10 to the system for source control. The high IR Loop Output port of the IRD10 allows you to add up to four additional IRD10s for a total of 50 Emitters. The IRD10 even comes with a 1' interconnect cable for quick and easy connection.

FEATURES

- Connects a single IR output to up to ten IR Emitters
- Add more Emitters to an IRD4 Amplified IR Connection Block
- Ideal for expanding ELAN IR 'ALL' Port capabilities
- Link up to five IRD10s using the High-Output Loop port
- 1' 3.5mm 'mini' plug interconnect cable included
- *Non-retail packaging*

IRDKIT IR DISTRIBUTION KIT



With full-color retail packaging standard, the IRLDKIT is the ideal off-the-shelf product for consumers who like to "do-it-themselves." The IRLDKIT contains everything needed for a basic IR repeater system—a tabletop IR Sensor, four IR Emitters and the IRLD4 Amplified IR Distribution Block with power supply.

FEATURES

- One box—everything you need!
- Kit includes:
 - (1) IRS5 plasma-friendly tabletop IR Sensor
 - (4) IRE2 'talk back' IR Emitters
 - (4) IR Emitter Shields
 - (1) IRLD4 Amplified IR Distribution Block
 - (1) Quad 'mini' plug-to-mono 'mini' plug cable for ELAN controller IR output port applications
 - (1) PWR2 12VDC/200mA Power Supply
- Full-color retail box standard

IRD4Z 4-ZONE IN-WALL IR DISTRIBUTION BLOCK (formerly IRZ)



Ideal for receiver-based multi-room systems, this single-gang Decora®-style IR connecting block can power up to 12 IR Sensors or Keypads, creating a four-zone IR repeater system with three sub-zones each. The zoned routing accommodates multiple same-model receivers without IR cross talk. The IRLD4Z can also be used as a 1-In x 6-Out powered IR Distribution Block. Two IR 'ALL' ports can be used to control common sources in the system.

FEATURES

- 4 Zone IR Emitter output ports
- Two IR 'ALL' ports to control common source equipment
- 100kHz IR pass-through bandwidth
- Can power up to 12 IR Sensors or keypads (three per zone)
- Installer-friendly receiver power status and IR activity indicators
- 11VAC Power Supply included
- Available in white
- Non-retail packaging

IRD6Z 6-ZONE IR DISTRIBUTION HUB (formerly Z080)



The IRLD6Z is the power, IR routing and status-sensing hub for Keypads and IR Sensors used in stand-alone A/V distribution systems. The IRLD6Z can control up to six stereo receivers, each with dedicated Keypads and/or IR Sensors. Two IR 'ALL' ports with dipswitch-selectable Hi/Lo Emitter settings can control the common sources in this system. Power On/Off status of multiple receivers is sensed via the use of PWR9 Status-Sensing Power Cubes plugged into the switched outlets of each receiver.

FEATURES

- 6-zone hub for stand-alone systems
- 6 Zone-specific IR Emitter output ports
- Two IR 'ALL' ports to control common source equipment
- Powers up to 12 keypads or IR Sensors
- Installer-friendly receiver power status and IR activity indicators
- 11VAC Power Supply included
- Receiver ON/OFF status feedback (PWR9 Status-Sensing Power Cubes sold separately)
- Non-retail packaging

IR ACCESSORIES

Important accessories that complete ELAN's IR Control product line.

IRIC IR INTERCONNECT CABLE (formerly IR2043)



The IRIC is a 3.5mm 'mini' plug interconnect cable that is used for IR connections between ELAN multi-room controller IR output ports and any source that has a 3.5mm IR input jack. Ideal for use with the ELAN Z•880 Video Controller, VIA!®dj Digital Music Servers and the DTNR Dual Digital Tuner. Also perfect for routing the Trigger outputs of ELAN multi-room controllers to ELAN amplifiers, Z•Fans, and the Z•Power Controller. Available in two-meter lengths. Sold in packages of six.

Note: The IRIC IR Interconnect Cable can not be used with the IRD4 Amplified Distribution Block. For connecting the IRD4 to any ELAN IR output, use the 3.5mm Quad-to-Mono interconnect cable that is included with the IRD4.

FEATURES

- Plug-and-play cable for direct IR jack connections between components
- 3.5mm plug-to-3.5mm plug, two meter length
- Sold in packages of six
- Not for use with the IRD4 Amplified Distribution Block
- *Non-retail packaging*

IRXC 15' IR SENSOR EXTENSION CABLE



This 15' cable provides a quick and easy means of extending the cable length of any ELAN quad-plug ELAN IR Sensor.

FEATURES

- Extends IR Sensor cables 15'
- Compatible with IRS1, IRS3, IRS5 and IRS7EP plasma-friendly Sensors
- *Full-color retail box standard*

IRYC IR EMITTER "Y" CABLE



Designed specifically to allow you to control one source from two independent IR outputs, the IRYC is a one foot long "Y" cable that converts any ELAN IR Emitter into a dual-plug IR Emitter. Internal diodes built into the IRYC prevent conflicts between IR outputs.

FEATURES

- 1' "Y" cable for dual-plug/single-Emitter applications
- Internal diode protection
- *Full-color retail box standard*

PWR2 200mA, 12 VOLT DC REGULATED POWER SUPPLY



For use with the IRD4 Amplified IR Distribution Block IR, this regulated 200mA power supply is capable of powering the IRD4 and all the Sensors and Emitters connected to it.

PWR3 2.1A, 12 VOLT DC REGULATED POWER SUPPLY



For larger distributed IR systems, this regulated 2.1 amp power supply will handle up to ten IRD4s and all the Sensors and Emitters connected to them.

SOME APPLICATIONS AND ADD ONS USING ELAN's IR LINE

By using ELAN's IR line, you also have seamless integration with an exceptional range of music and entertainment equipment, to make the most of every installation.

IR Products are Ideal for Controlling ELAN's Music Source Components or Stand Alone Applications

Add and control ELAN's entire family of VIA!®dj Digital Music Servers. From the VIA!®dj-s 160GB up to the VIA!®dj-hc 250GB, there's something to suit every installation.

Access music from any TV or VIA!® Touch Panel, get 20X rip speed, transfer music to iPods® with ease and more. Or add our DTNR for multi-room audio. With dual AM/FM tuners and 120 presets, this is an easy-to-add-on piece for those who want individual radio station access.



DTNR—DUAL DIGITAL TUNER



VIA!®dj-s—SINGLE OUTPUT DIGITAL MUSIC SERVER



VIA!®dj—MULTI-OUTPUT DIGITAL MUSIC SERVER

VIA!®dj-hc—HIGH CAPACITY MULTI-OUTPUT DIGITAL MUSIC SERVER

Also Perfect For Controlling Every Component in a Home Theater Application

Get control over a full stack of Home Theater components easily and reliably using the VIA!®Valet with the IRD4 Amplified Connection Block and any of our high-quality IR Emitters or Blasters. Or, if you have more components to control, simply expand the ports using our IRD10 Expansion Block.



VIA!®Valet6.4
TABLETOP/UNDER-COUNTER
COLOR TOUCH PANEL

IRD4—AMPLIFIED IR CONNECTION BLOCK

TO FIND OUT MORE ABOUT ANY OF ELAN'S EXCITING PRODUCTS CALL 1-877-289-3526 OR VISIT US AT ELANHOMESYSTEMS.COM

ELANTM
HOME SYSTEMS

Life Just Got BetterTM



2428 Palumbo Drive
Lexington, KY USA 40509

voice 859.269.7760

fax 859.269.7972

sales 877.289.3526

tech support 800.622.3526

email elan@elanhomesystems.com

www.elanhomesystems.com